

Resource Summary Report

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PhyloPat

RRID:SCR_007851

Type: Tool

Proper Citation

PhyloPat (RRID:SCR_007851)

Resource Information

URL: <http://www.cmbi.ru.nl/phylopat>

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Description: A database of phylogenetic patterns of evolution between 46 different species. PhyloPat uses the latest release of EnsMart (release 52), and their one-to-one, one-to-many and many-to-many orthologies. First, we stored all of the Ensembl IDs within the 46 species, and the orthologies between them. Second, we determined the evolutionary order of the studied species using the NCBI Taxonomy database. The phylogenetic tree of these species can be viewed [here](#). Third, we used this phylogenetic tree as a starting point for building our phylogenetic lineages. For each gene in the first species (*S. cerevisiae*), we looked for orthologs in the other species. All orthologs were added to the phylogenetic lineage, and in the next round were checked for orthologs themselves, until no more orthologies were found for any of the genes. This process was repeated for all genes in all species that were not connected to any phylogenetic lineage yet. The complete phylogenetic lineage determination generated 329,998 phylogenetic lineages, consisting of 973,821 genes. These lineages can be queried [here](#) by phylogenetic patterns, MySQL regular expressions or simply a list of Ensembl/EMBL/EntrezGene/HGNC IDs. Output can be given in HTML, Excel or plain text format.

Synonyms: PhyloPat

Resource Type: database, data or information resource

Keywords: bio.tools

Resource Name: PhyloPat

Resource ID: SCR_007851

Alternate IDs: nif-0000-03282, biotools:phylopat

Alternate URLs: <https://bio.tools/phylopat>

Record Creation Time: 20220129T080244+0000

Record Last Update: 20260803T040513+0000

Ratings and Alerts

No rating or validation information has been found for PhyloPat.

No alerts have been found for PhyloPat.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Spataro N, et al. (2017) Properties of human disease genes and the role of genes linked to Mendelian disorders in complex disease aetiology. Human molecular genetics, 26(3), 489.

Hulsen T, et al. (2006) PhyloPat: phylogenetic pattern analysis of eukaryotic genes. BMC bioinformatics, 7, 398.